

## ABSTRACT

An improved structure of a gas sensor is provided which is designed to provide for firm installation of the protective cover assembly on a cover mount of a housing. The cover assembly made up of an outer cylindrical cover and an inner cylindrical cover each of which includes an open end portion and a body portion. The body portion of the inner cylindrical cover is disposed within the body portion of the outer cylindrical cover in a non-contact fashion. The open end portion of at least one of the outer and inner cylindrical covers has a shoulder which is placed in line contact with the open end portion of the other cylindrical cover to secure portions of the outer and inner cylindrical covers installed on an end side wall of the housing.